

Amendments to the claims:

1. (Currently amended) A computer-readable medium having software for editing a decomposed original video sequence, said decomposed original video sequence comprising one or more original camera-motion layers that appear to move with a camera as the camera moves, and zero or more original fixed-frame layers decomposed from an original video sequence, said software comprising:

code segments for editing at least one of said original camera-motion layers to obtain modified camera-motion layers such that each frame of a composite modified video sequence composed from said modified camera-motion layers and said original fixed-frame layers is obtained without editing each frame of said original video sequence, said editing comprising performing an edge operation to one of said original camera-motion layers.

2. (Original) A computer-readable medium as in claim 1, wherein said code segments for editing said original camera-motion layers comprise:

code segments for converting one of said original camera-motion layers to said original image;

code segments for performing said edge operation to said original image to obtain an edge image;

code segments for editing said edge image to obtain a modified image; and

code segments for converting said modified image to one of said modified camera-motion layers.

3. (Original) A computer-readable medium as in claim 2, wherein said code segments for editing said original camera-motion layers further comprise:

code segments for rectifying said original image prior to performing said edge operation;
and

code segments for rectifying said modified image prior to converting said modified image.

4. (Original) A computer-readable medium as in claim 1, wherein said code segments for editing said original camera-motion layers comprise:

code segments for inserting a portion into, deleting a portion from, or changing a portion of one of said original camera-motion layers to obtain one of said modified camera-motion layers.

5. (Original) A computer-readable medium as in claim 1, wherein said code segments for editing said original camera-motion layers comprise:

code segments for replacing one of said original camera-motion layers with another camera-motion layer to obtain one of said modified camera-motion layers.

6. (Original) A computer-readable medium as in claim 1, wherein said code segments for editing said original camera-motion layers comprise:

code segments for adding a video sequence to one of said original camera-motion layers to obtain one of said modified camera-motion layers.

7. (Original) A computer-readable medium as in claim 1, wherein said code segments for editing said original camera-motion layers comprise:

code segments for adding an animation sequence to one of said original camera-motion layers to obtain one of said modified camera-motion layers.

8. (Original) A computer-readable medium as in claim 1, wherein said code segments for editing said original camera-motion layers comprise:

code segments for adding a three-dimensional object to one of said original camera-motion layers to obtain one of said modified camera-motion layers.

9. (Original) A computer-readable medium as in claim 1, wherein said code segments for editing said original camera-motion layers comprise:

code segments for adding a user-activated region to one of said original camera-motion layers to obtain one of said modified camera-motion layers.

10. (Original) A computer-readable medium as in claim 1, wherein said code segments for editing said original camera-motion layers comprise:

code segments for modifying an on/off time of one of said original camera-motion layers to obtain one of said modified camera-motion layers.

11. (Original) A computer-readable medium as in claim 1, wherein said code segments for editing said original camera-motion layers comprise:

code segments for modifying an opaqueness of one of said original camera-motion layers to obtain one of said modified camera-motion layers.

12. (Original) A computer-readable medium as in claim 1, wherein said code segments for editing said original camera-motion layers comprise:

code segments for modifying fade-in/fade-out of one of said original camera-motion layer to obtain one of said modified camera-motion layers.

13. (Original) A computer-readable medium as in claim 1, wherein said code segments for editing said original camera-motion layers comprise:

code segments for modifying an ordering of one of said original camera-motion layers with respect to other layers of said decomposed original video sequence to obtain said modified camera-motion layers.

14. (Original) A computer-readable medium as in claim 1, wherein said code segments for editing said original camera-motion layers comprise:

code segments for deleting one of said original camera-motion layers of said decomposed original video sequence.

15. (Original) A computer-readable medium as in claim 1, wherein said code segments for editing said original camera-motion layers comprise:

code segments for adding another camera-motion layer to said decomposed original video sequence, such that an ordering of said original camera-motion layers with respect to other layers of said decomposed original video sequence is modified to obtain said modified camera-motion layers.

16. (Original) A computer-readable medium as in claim 1, wherein said code segments for editing said original camera-motion layers comprise:

code segments for modifying a size of one of said original camera-motion layer to obtain one of said modified camera-motion layer.

17. (Original) A computer-readable medium as in claim 1, wherein said code segments for editing said original camera-motion layers comprise:

code segments for editing camera motion parameters of one of said original camera-motion layer to obtain modified camera motion parameters.

18. (Original) A computer-readable medium as in claim 17, wherein said code segments for editing camera motion parameters comprise:

code segments for adjusting at least one of said camera motion parameters to obtain said modified camera motion parameters.

19. (Original) A computer-readable medium as in claim 17, wherein said code segments for editing camera motion parameters comprise:

code segments for replacing said camera motion parameters with analytically-derived camera motion parameters to obtain said modified camera motion parameters.

20. (Original) A computer-readable medium as in claim 17, wherein said code segments for editing camera motion parameters comprise:

code segments for replacing said camera motion parameters with camera motion parameters from another video sequence to obtain said modified camera motion parameters.

21. (Original) A computer-readable medium as in claim 1, further comprising the step of: code segments for editing at least one of said original fixed-frame layers to obtain modified fixed-frame layers, said editing comprising performing an edge operation to one of said original fixed-frame layers.

22. (Original) A computer-readable medium as in claim 21, wherein said code segments for editing said original fixed-frame layers comprise:

code segments for converting one of said original fixed-frame layers to an original image;
code segments for performing said edge operation to said original image to obtain an edge image;
code segments for editing said edge image to obtain a modified image; and
code segments for converting said modified image to one of said modified fixed-frame layers.

23. (Original) A computer-readable medium as in claim 22, wherein said code segments for editing said original fixed-frame layers further comprise:

code segments for rectifying said original image prior to performing said edge operation;
and
code segments for rectifying said modified image prior to converting said modified image.

24. (Original) A computer-readable medium as in claim 21, wherein said code segments for editing said original fixed-frame layers comprise:

code segments for adding camera motion parameters to at least one of said original fixed-frame layers.

25. (Original) A computer comprising the computer-readable medium of claim 1.

26. (Currently amended) A method for editing a decomposed original video sequence, said decomposed original video sequence comprising one or more original camera-motion layers that

appear to move with a camera as the camera moves, and zero or more original fixed-frame layers decomposed from an original video sequence, comprising the step of:

editing at least one of said original camera-motion layers to obtain modified camera-motion layers such that each frame of a composite modified video sequence composed from said modified camera-motion layers and said original fixed-frame layers is obtained without editing each frame of said original video sequence, said editing comprising performing an edge operation to one of said original camera-motion layers.

27. (Currently amended) An apparatus for editing a decomposed original video sequence, said decomposed original video sequence comprising one or more original camera-motion layers that appear to move with a camera as the camera moves and zero or more original fixed-frame layers decomposed from an original video sequence, comprising:

means for editing at least one of said original camera-motion layers to obtain modified camera-motion layers such that each frame of a composite modified video sequence composed from said modified camera-motion layers and said original fixed-frame layers is obtained without editing each frame of said original video sequence, said editing comprising performing an edge operation to one of said original camera-motion layers.

28. (Original) An apparatus as in claim 27, further comprising:

means for editing at least one of said original fixed-frame layers to obtain modified fixed-frame layers.

29. (Currently amended) An apparatus for editing an original video sequence, comprising:

an object-based video encoder to decompose said original video sequence into a decomposed original video sequence, said decomposed original video sequence comprising one or more original camera-motion layers that appear to move with a camera as the camera moves, and zero or more original fixed-frame layers;

a video editor to perform an edge operation to one of said original camera-motion layers and to edit said edge operated original camera-motion layers to obtain a decomposed modified video sequence; and

an object-based video compositor to compose said decomposed modified video sequence to obtain a composite modified video sequence, wherein each frame of said composite modified video sequence is obtained without editing each frame of said original video sequence.

30. (Currently amended) A computer-readable medium having software for implementing a video coloring book, wherein said software comprises code segments for editing at least one camera-motion layer that appears to move with a camera as the camera moves.

31. (Canceled)

32. (Previously presented) A computer-readable medium as in claim 30, wherein the camera-motion layer is decomposed from a video sequence.

33. (Previously presented) A computer-readable medium as in claim 30, wherein the camera-motion layer is an image.

34. (Original) A computer-readable medium as in claim 30, said software comprising code segments for editing at least one fixed-frame layer.